## UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

Docket No. MAT-5340US3

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Total Pages in this Submission

#### TO THE ASSISTANT COMMISSIONER FOR PATENTS

Box Patent Application Washington, D.C. 20231

Washington, D.C. 20231												
	Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for 🔠 📑											
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	DATA TRANSMITTING APPARATUS, DATA RECEIVING APPARATUS AND DATA TRANSMISSION CONTROL APPARATUS											
	CONTROL ATTAKATUS											
	900											
and i	and invented by:											
Hi	Hidetoshi TAKEDA; Hiroyuki IITSUKA; Takuya NISHIMURA; and Masazumi YAMADA											
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	Conti	inua	tion 🗆	Divisional		Continuation	-in-part (CIP)	of prior application No.:	09/586,915			
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1 1 1 1 2	. 🛚	Spe	cification	having		50	nanes and ir	ncluding the following:				
#4 -		Opt	omodion			30	pages and ii	loldding the following.				
	a.	$\boxtimes$	Descrip	tive Title of the	e Inv	ention						
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	C.					• •		velonment (if annlicable)				
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	e.	X	Backgro	ound of the Inv	entic	n						
	f.	f. 🛛 Brief Summary of the Invention										
	g.   Brief Description of the Drawings (if drawings filed)											
	h. 🗵 Detailed Description											
	i.	X	Claim(s)	) as Classified	Belo	ow .						
	j. 🗵 Abstract of the Disclosure											

## UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

**Application Elements (Continued)** 

Docket No. MAT-5340US3

Total Pages in this Submission

3.	X	Dra	Drawing(s) (when necessary as prescribed by 35 USC 113)								
	a.	$\boxtimes$	Formal	Number of Sheets _	11						
	b.		Informal	Number of Sheets _							
4.	×	Oath or Declaration									
	a.	☐ Newly executed (original or copy) ☐ Unexecuted									
	b.	Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)									
	C.	:. 🗵 With Power of Attorney 🔲 Without Power of Attorney									
	d.		☐ <u>DELETION OF INVENTOR(S)</u> Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b).								
5.	×	The Box	Incorporation By Reference (usable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.								
6. 7.		Computer Program in Microfiche (Appendix)									
7.		Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included)									
}- 	a.	☐ Paper Copy									
ħj	b.		□ Computer Readable Copy (identical to computer copy)								
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<b>#</b> #		Accompanying Application Parts									
8.		Assignment Papers (cover sheet & document(s))									
9.		37 CFR 3.73(B) Statement (when there is an assignee)									
10.		English Translation Document (if applicable)									
11.	×	Information Disclosure Statement/PTO-1449   Copies of IDS Citations									
12.	×	Preliminary Amendment									
13.	×	Acknowledgment postcard									
14.	×	Cert	tificate of Mailing								
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# UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. MAT-5340US3

Total Pages in this Submission

	Accompanying Application Parts (Continued)									
15.	15.									
16.	×	Additional Enclosures (please identify below):								
		Copy of Er	glish Translatio	n of Article 34 Am	nendment, wh	ich was	filed April 2, 1997			
				Fee Calculat	ion and Trar	ısmitta	ıl			
				CLAIMS A	S FILED					
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<b> </b> +  -							BASIC FEE	\$740.00		
OTHE	ER FE	EE (specify	purpose)					\$0.00		
[]  -							TOTAL FILING FEE	\$740.00		
<ul> <li>A check in the amount of \$740.00 to cover the filing fee is enclosed.</li> <li>☑ The Commissioner is hereby authorized to charge and credit Deposit Account No. 18-0350 as described below. A duplicate copy of this sheet is enclosed.</li> <li>☐ Charge the amount of as filing fee.</li> <li>☑ Credit any overpayment.</li> </ul>										
	<ul> <li>☑ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17</li> <li>☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).</li> </ul>									
Lawrence E. Ashery, Reg. No. 34,515 Ratner & Prestia P.O. Box 980 Valley Forge, PA 19482 (610) 407-0700										

CERTIFICATE OF MA	AIL G BY "EXPRESS al.	MAIL" (37 CFR 1.1.)	Docket No. MAT-5430US3
Serial No.  To be assigned	Filing Date  Herewith	Examiner	Group Art Unit
vention: DATA TRANSI CONTROL APP		TA RECEIVING APPARATUS	AND DATA TRANSMISSIO
37 CFR 1.10 in an enve	ne United States Postal Serv (Box lope addressed to: U.S. E	Application with its listed enclosur (Identify type of correspondence) ice "Express Mail Post Office to Patent Application) Patent and Trademark Off Box 2327, Arlington, VA	o Addressee" service under
On North Heart House when the state of the s		Kathleen Li (Typed or Printed Name of Person M (Signature of Person Mailing EV 01586359 ("Express Mail" Mailing I	Tailing Correspondence)  Correspondence)  O4 US
	Note: Each paper must h	ave its own certificate of mailing.	

#### NOTATIONS:

	NOTATIONS:
5	1information table holder
	2transmission rate information extractor
	3counter
	4transmission bandwidth determiner
	21smoothing buffer
	22arrival timing catcher
	23time stamp generator
10	24time stamp adder
	25transmission timing determiner
	26cycle time register
43	27transmission packet converter
43	30output time judging unit
15	31counter
Ų.	32transmission timing controller
# #	101bandwidth detection means
<b>1</b> -4	102necessary bandwidth calculation means
	103transmission condition judge means
	104acquired bandwidth
14 14	105transmission control means
•	106bandwidth information adding means
	107transmission means
	108, 112, 122data
25	109data bandwidth
	110necessary bandwidth at transmitting medium
	111transmission condition judge result
	113, 119bandwidth information added data
	114transmitting medium
30	115reception means
	116transmission stop detection means
	117bandwidth information separation means
	118processing means
	120transmission stop detection result
35	121bandwidth information

		123direction signal to recording and reproducing				
	actions					
٠		124transmitting apparatus				
		125receiving apparatus				
5		126tuner				
		127playback apparatus				
		128recording apparatus				
		129reproducing apparatus				
		130data processing means				
10		201packet header				
1.1		202CRC for packet header				
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변설 유숙		204data block				
7.[ []]		205CRC for data				
15		207payload part				
,. ,		301SID (Source node ID)				
<b>}</b> 4		302DBS (Data Block Size)				
<b>Ļ</b> ∔		303FN (Fraction Number)				
₩ 1,1 2,0 2,0		304QPC (Quadlet Padding Count)				
<b>2</b> 0		305SPH (Source Packet Header)				
la.		306DBC (Data Block continuity Counter)				
		307FMT (Format)				
		308FDF (Format Dependent Field)				
		401, 801, 810, 908propagation delay identifier				
25	holding n					
		402, 802, 811maximum transmission data size holding				
	means					
		403, 809bandwidth acquiring means				
30		404, 803, 808, 904, 907transmission/reception means				
		405, 804, 812, 909propagation delay identifier				
		406, 805, 813maximum transmission data size				
		407, 806, 814, 910transmitting apparatus				
		408, 807, 906transmitting medium				
	•	501packet				
35		502request for ownership of bus				

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601...control node for ownership of bus

602...relay node

603...transmission node

701...on-line identifier

702...broadcast connection counter

703...point-to-point connection counter

704...non-use field

705...channel

706...data rate

707...overhead ID

708...payload size

901...analyzing means

902...identifier determination means

903...identifier setting means

905...transmission control apparatus